APPENDIX B

PENDING CLAIMS

1	1. (As filed) A method of treating a neoplasia in a mammal, said		
2	method comprising administering to said mammal a serum-stable nucleic acid-lipid		
3	particle comprising a nucleic acid portion that is fully encapsulated within the lipid		
4	portion, wherein said administration is by injection at an injection site that is distal to said		
5	neoplasia in said mammal.		
1	2. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 1, wherein said nucleic acid comprises an expressible gene.		
1	3. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 2, wherein said expressible gene encodes a member selected from		
3	the group consisting of therapeutic polypeptides and therapeutic polynucleotides.		
1	4. (Once amended) A method of treating a neoplasia in a mammal in		
2	accordance with claim 2, wherein said gene is heterologous.		
1	5. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 3, wherein said gene is a member selected from the group		
3	consisting of genes encoding suicide enzymes, toxins and ribozymes.		
1	6. (Once amended) A method of treating a neoplasia in a mammal in		
2	accordance with claim 2, wherein said gene encodes a member selected from the group		
3	consisting of herpes simplex virus thymidine kinase (HSV-TK), cytosine deaminase,		
4	xanthine-guaninephosphoribosyl transferase, purine nucleoside phosphorylase,		
5	cytochrome P450 2B1.		
1	7. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 2, wherein said gene is homologous.		

1	8. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 2, wherein said gene encodes a member selected from the group			
3	consisting of proto-oncogenes, cytokines, immune stimulatory proteins and anti-			
4	angiogenic proteins.			
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1	9. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 2, wherein said gene is a member selected from the group			
3	consisting of IL-2, IL-12, IL-15 and GM-CSF.			
1	10. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 2, wherein a therapeutically effective amount of said gene is			
3	generated at said neoplasia.			
1	11. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 1, wherein said nucleic acid-lipid particle comprises a			
3	protonatable lipid having a pKa in the range of about 4 to about 11.			
1	12. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 11, wherein said protonatable lipid is a member selected from the			
3	group consisting of DODAC, DODAP, DODMA, DOTAP, DOTMA, DC-Chol, DMRIE,			
4	DSDAC and mixtures thereof.			
1	13. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 1, wherein said nucleic acid-lipid particle comprises a lipid			
3	conjugate that prevents aggregation during formulation.			
1	14. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 13, wherein said lipid conjugate is a member selected from the			

group consisting of PEG-lipids and PAO-lipids.

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1	15. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 13, wherein said lipid conjugate is reversibly associated with an			
3	outer lipid monolayer, and wherein said lipid conjugate exchanges out of said outer lipid			
4	monolayer at a rate faster than PEG-CerC20.			
1	16. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 1, wherein said nucleic acid-lipid particle is substantially devoid			
3	of detergents and organic solvents.			
1	17. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 1, wherein a therapeutically effective amount of said nucleic acid-			
3	lipid particle accumulates at said neoplasia.			
1	18. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 1, wherein a therapeutic effect is detected at the site of said			
3	neoplasia.			
1	19. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 17, wherein said therapeutically effective amount comprises			
3	greater than about 0.5% of an administered dose.			
1	20. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 1, wherein said nucleic acid-lipid particle has a diameter of about			
3	50 nm to about 200 nm.			
1	21. (As filed) A method of treating a neoplasia in a mammal in			
2	accordance with claim 20, wherein said nucleic acid-lipid particle has a diameter of about			
3	60 nm to about 130 nm.			
1	22. (As filed) A method of treating a neoplasia in a mammal in			

accordance with claim 20, wherein said nucleic acid-lipid particles are of a uniform size.

1	23. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 1, wherein said nucleic acid-lipid particle has a nucleic acid to		
3	lipid ratio of greater than about 3 mg nucleic acid to mmole of lipid.		
1	24. (As filed) A method of treating a neoplasia in a mammal in		
	accordance with claim 23, wherein said particle has a nucleic acid to lipid ratio of greater		
2	•		
3	than about 14 mg nucleic acid to mmole of lipid.		
1	25. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 23, wherein said particle has a nucleic acid to lipid ratio of greater		
3	than about 25 mg nucleic acid to mmole of lipid.		
1	26. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 1, wherein said nucleic acid remains at least 90% intact when said		
3	particle containing about 1 μ g DNA is treated with about 100 U DNAse 1 in digestion		
4	buffer at 37°C for 30 min.		
1	28. (As filed) A method of treating a neoplasia in a mammal in		
2	accordance with claim 1, wherein said administering is performed at least once per eight		
3	weeks.		
1	35. (New) A method of treating a neoplasia in a mammal, in		
2	accordance with claim 5, wherein said gene encodes a suicide enzyme.		
1	36. (New) A method of treating neoplasia in a mammal in accordance		
2	with claim 35, further comprising administering a prodrug.		
1	37. (New) A method of treating a neoplasia in a mammal in		
2	accordance with claim 36, wherein said prodrug is administered after the serum-stable		
3	nucleic acid-lipid particle.		
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1	38. (1	New) A method of treating a neoplasia in a mammal in	
2	accordance with claim 36, wherein said prodrug is administered before the serum-stable		
3	nucleic acid-lipid particle.		
1	39. (1	New) A method of treating a neoplasia in a mammal in	
2	accordance with claim 9, further comprising administering a chemotherapeutic agent.		
1	40. (T	New) A method of treating a neoplasia in a mammal in	
2	`	9, wherein the chemotherapeutic agent is administered after the	
		• •	
3	serum-stable nucleic aci	d-lipid particle.	
1	41. (1	New) A method of treating a neoplasia in a mammal in	
2	accordance with claim 3	9, wherein the chemotherapeutic agent is administered before the	
3	serum-stable nucleic acid-lipid particle.		
1	42. (1	New) A method of treating a neoplasia in a mammal in	
2	accordance with claim 1	, wherein the lipid portion comprises a cationic lipid and a	
3	neutral lipid.		
1	43. (1	New) A method of treating a neoplasia in a mammal in	
2	accordance with claim 4	2, wherein the cationic lipid is DODAC.	
1	44. (1	New) A method of treating a neoplasia in a mammal in	
	`	,	
2	accordance with claim 4	2, wherein the neutral lipid is DOPE.	
1	45. (1	New) A method of treating a neoplasia in a mammal in	
2	accordance with claim 4	2, wherein the lipid portion further comprises a PEG-lipid.	
1	46. N	New) A method of treating a neoplasia in a mammal in	

accordance with claim 42, wherein the lipid portion further comprises cholesterol.

47. (New) A method of treating a neoplasia in a mammal, said method				
comprising administering to said mammal a serum-stable nucleic acid-lipid particle				
comprising a nucleic acid portion that is fully encapsulated within the lipid portion,				
wherein said administration is by injection at an injection site that is dista				
to said neoplasia in said mammal; and				
wherein said neoplasia is responsive to the gene product of the nucleic				
acid.				
48. (New) A method of treating a neoplasia in a mammal, said method				
comprising administering to said mammal a serum-stable nucleic acid-lipid particle				
comprising a nucleic acid portion that is fully encapsulated within the lipid portion,				
wherein said administration is by injection at an injection site that is dista				
to said neoplasia in said mammal; and				
wherein cells of said neoplasia are transfectable by said nucleic acid-lipid				
particle.				
49. (New) The method of claim 47, wherein said nucleic acid encodes				
a member selected from the group consisting of: suicide enzymes, toxins, tumor				
suppressor genes, and cytokines.				
50. (New) The method of claim 47, wherein said nucleic acid encodes				
a suicide enzyme.				
51. (New) The method of claim 47, wherein said nucleic acid encodes				
a toxin.				
52. (New) The method of claim 47, wherein said nucleic acid encodes				
a tumor suppressor protein.				
53. (New) The method of claim 47, wherein said nucleic acid encodes				
a cytokine.				

1		54.	(New) The method of claim 50, wherein the suicide enzyme is a
2	member select	ted from	n the group consisting of: HSV-TK, purine nucleoside
3	phosphorylase, and cytosine deaminase.		
1		55.	(New) The method of claim 50, wherein the neoplasia is
2	melanoma.		
1		56.	(New) The method of claim 50, wherein the neoplasia is colorectal
2	cancer.		
1		57.	(New) The method of claim 50, wherein the neoplasia is sarcoma.
1		58.	(New) The method of claim 51, wherein the toxin is <i>Pseudomonas</i>
2	exotoxin.		•
1		59.	(New) The method of claim 51, wherein the tumor suppressor
2	protein is apop	otin.	
1		60. ·	(New) The method of claim 51, wherein the cytokine is IL-12.
1		61.	(New) The method of claim 51, wherein administration of the
2	serum-stable nucleic acid-lipid particle is intravenous.		